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BASIC METHODS IN  
**Molecular  
Biology**

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Representations of 24 base pairs of the standard "B" form of DNA, photographed on an Evans and Sutherland PS300 (Arnott, S., and Hukins, D., *Biochem. Biophys. Res. Comm.* 47:1504, 1972). The molecular surface is displayed with dots (Connolly, M. L., *Science* 221:709, 1983). Color coding is by atom type: nitrogen is blue; carbon is green; oxygen is red; phosphorus is yellow. The back cover shows the same molecule, cross-sectioned approximately halfway through the helix. Cover illustrations were created by and are courtesy of Dr. J. M. Blaney of the Biomedical Products Department of E. I. du Pont de Nemours and Company, Wilmington, Delaware.

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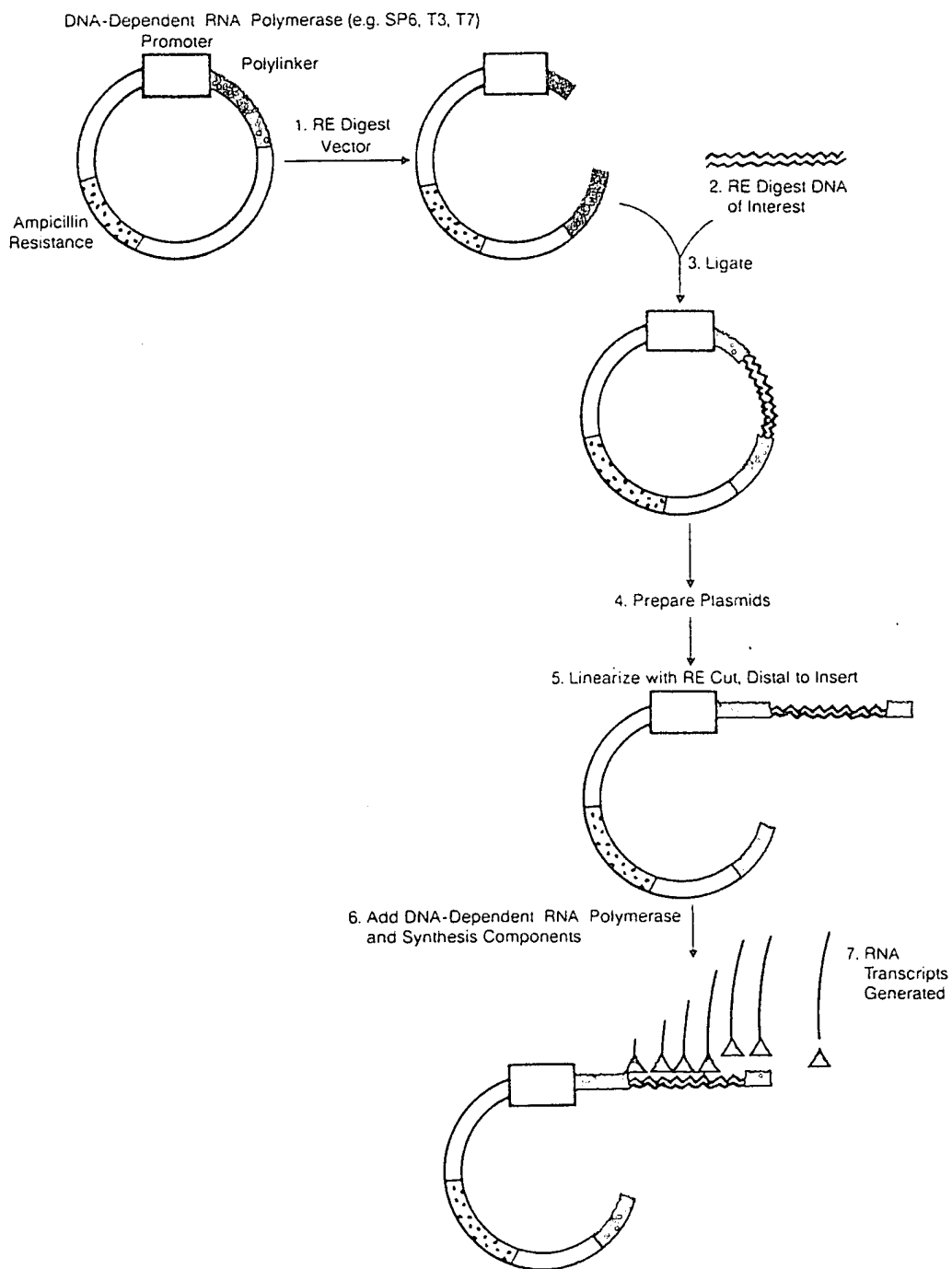
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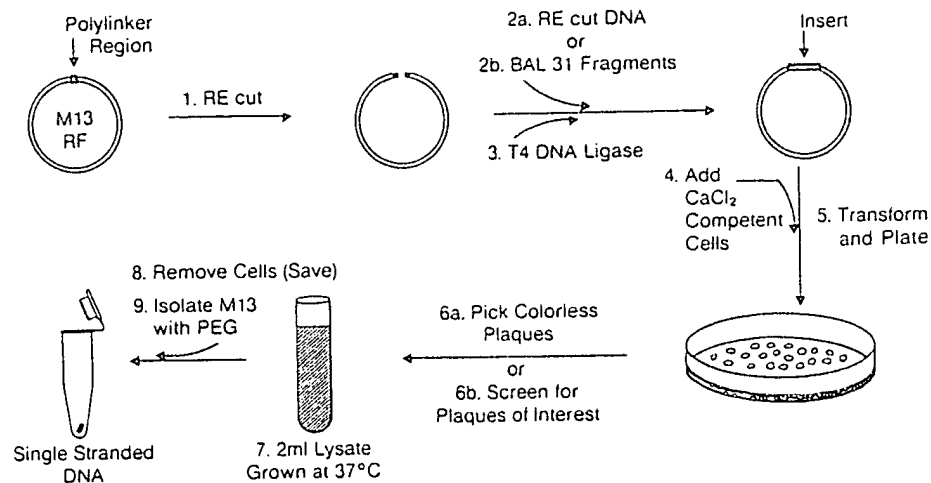
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**Figure 11.4**

Diagram of RNA transcript formation using plasmids with DNA-dependent RNA polymerase promoters, such as SP6, T3 or T7. The DNA of interest is ligated into the vector at compatible RE-cut ends, and plasmids are prepared in the presence of ampicillin for selection. Following linearization with a RE, RNA is transcribed beginning at the promoter region using a DNA-dependent RNA polymerase. ( $\Delta$  = Polymerase, — = Newly synthesized RNA strands)



12. Make Sequencing Gel

13. Run on Gel

14. Autoradiography

